

## GSM data burst



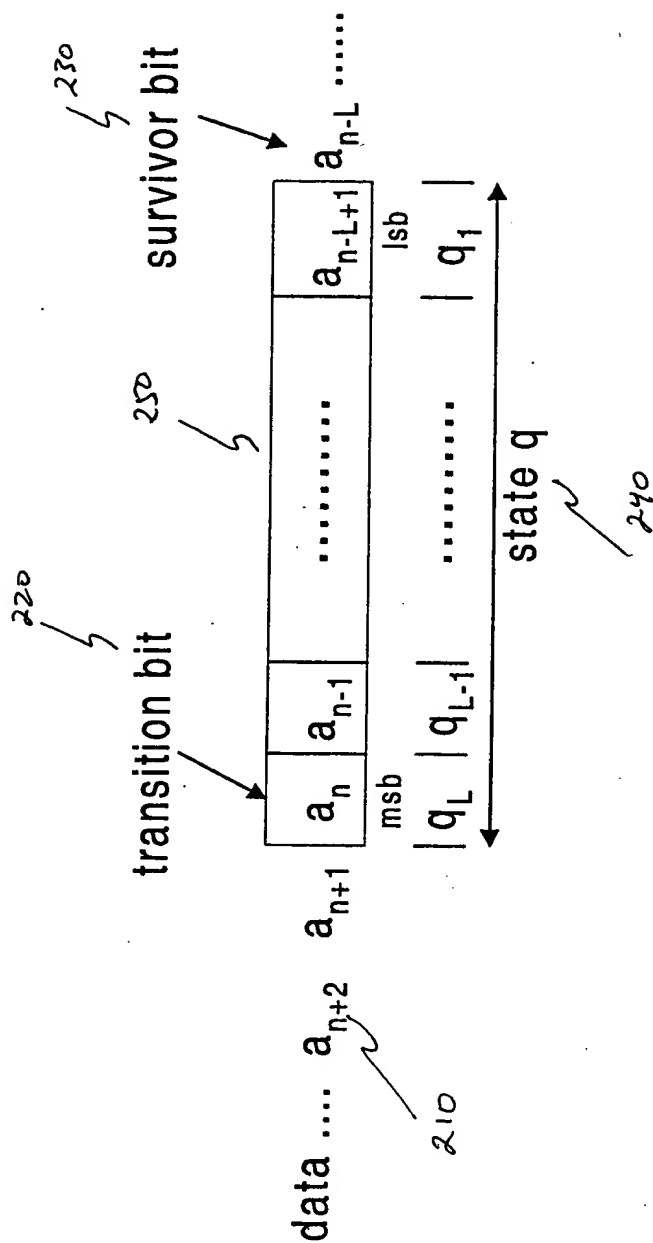


Fig. 2

006020-00092950

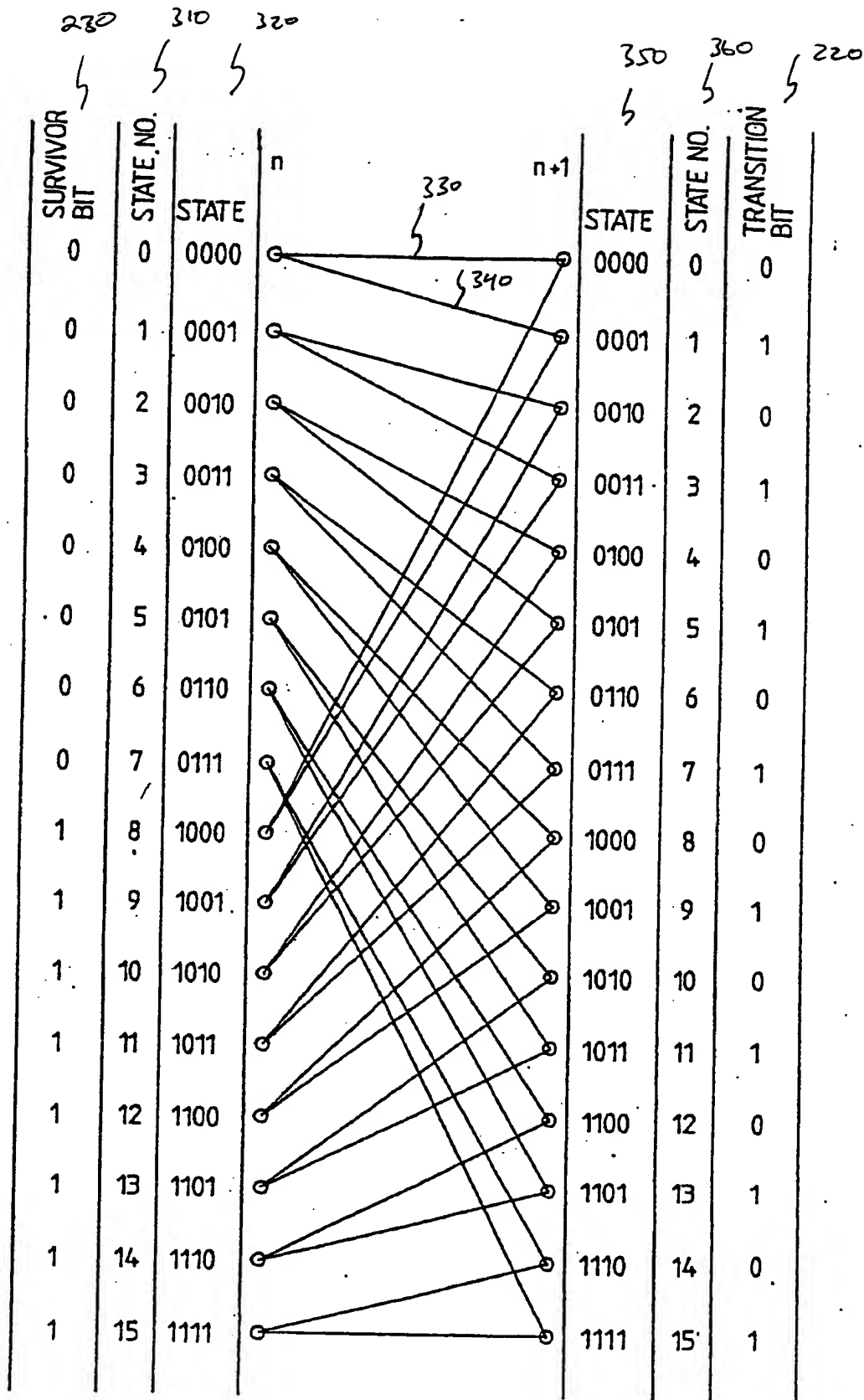
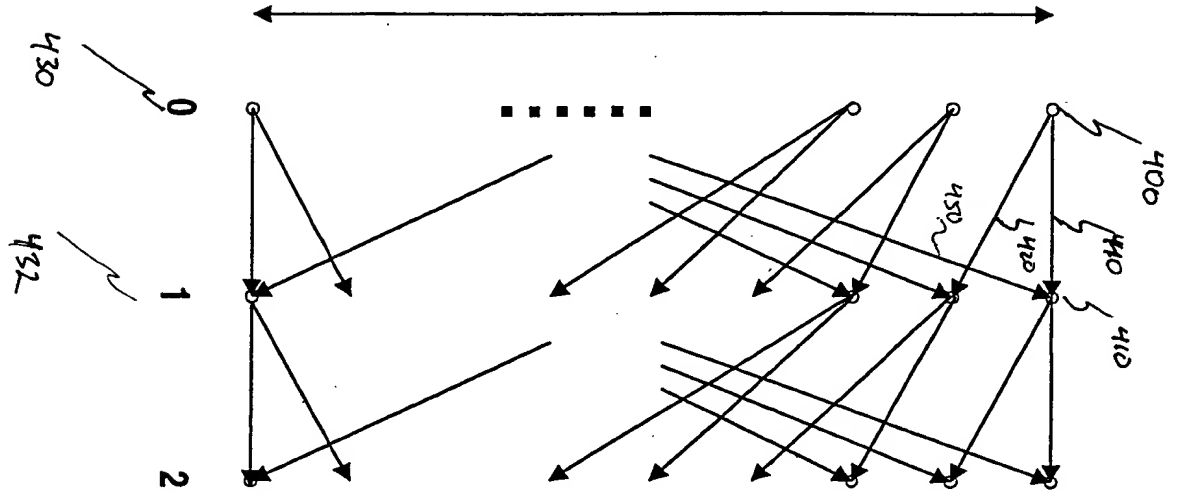


Fig. 3

$2^L$  STATES



TRELLIS STAGE

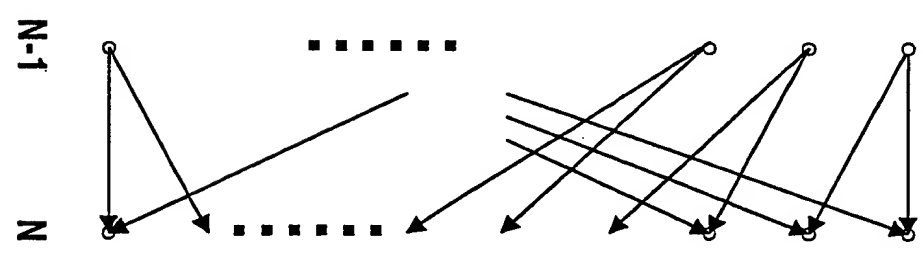


Fig. 4

6211435



AM ~ 610

2

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~ 600

n	$q_n$	$F(q_n, 0)$	$F(q_n, 1)$
0	00000	s	$F(q_n, 0) - 2s_5$
1	00001	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) - 2s_5$
2	00011	$F(q_{n-1}, 0) - 2s_2$	$F(q_n, 0) - 2s_5$
3	00010	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) - 2s_5$
4	00110	$F(q_{n-1}, 0) - 2s_3$	$F(q_n, 0) - 2s_5$
5	00111	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) - 2s_5$
6	00101	$F(q_{n-1}, 0) + 2s_2$	$F(q_n, 0) - 2s_5$
7	00100	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) - 2s_5$
8	01100	$F(q_{n-1}, 0) - 2s_4$	$F(q_n, 0) - 2s_5$
9	01101	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) - 2s_5$
10	01111	$F(q_{n-1}, 0) - 2s_2$	$F(q_n, 0) - 2s_5$
11	01110	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) - 2s_5$
12	01010	$F(q_{n-1}, 0) + 2s_3$	$F(q_n, 0) - 2s_5$
13	01011	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) - 2s_5$
14	01001	$F(q_{n-1}, 0) + 2s_2$	$F(q_n, 0) - 2s_5$
15	01000	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) - 2s_5$
16	10000	-s	$F(q_n, 0) + 2s_5$
17	10001	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) + 2s_5$
18	10011	$F(q_{n-1}, 0) + 2s_2$	$F(q_n, 0) + 2s_5$
19	10010	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) + 2s_5$
20	10110	$F(q_{n-1}, 0) + 2s_3$	$F(q_n, 0) + 2s_5$
21	10111	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) + 2s_5$
22	10101	$F(q_{n-1}, 0) - 2s_2$	$F(q_n, 0) + 2s_5$
23	10100	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) + 2s_5$
24	11100	$F(q_{n-1}, 0) + 2s_4$	$F(q_n, 0) + 2s_5$
25	11101	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) + 2s_5$
26	11111	$F(q_{n-1}, 0) + 2s_2$	$F(q_n, 0) + 2s_5$
27	11110	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) + 2s_5$
28	11010	$F(q_{n-1}, 0) - 2s_3$	$F(q_n, 0) + 2s_5$
29	11011	$F(q_{n-1}, 0) + 2s_1$	$F(q_n, 0) + 2s_5$
30	11001	$F(q_{n-1}, 0) - 2s_2$	$F(q_n, 0) + 2s_5$
31	11000	$F(q_{n-1}, 0) - 2s_1$	$F(q_n, 0) + 2s_5$

Fig. 7

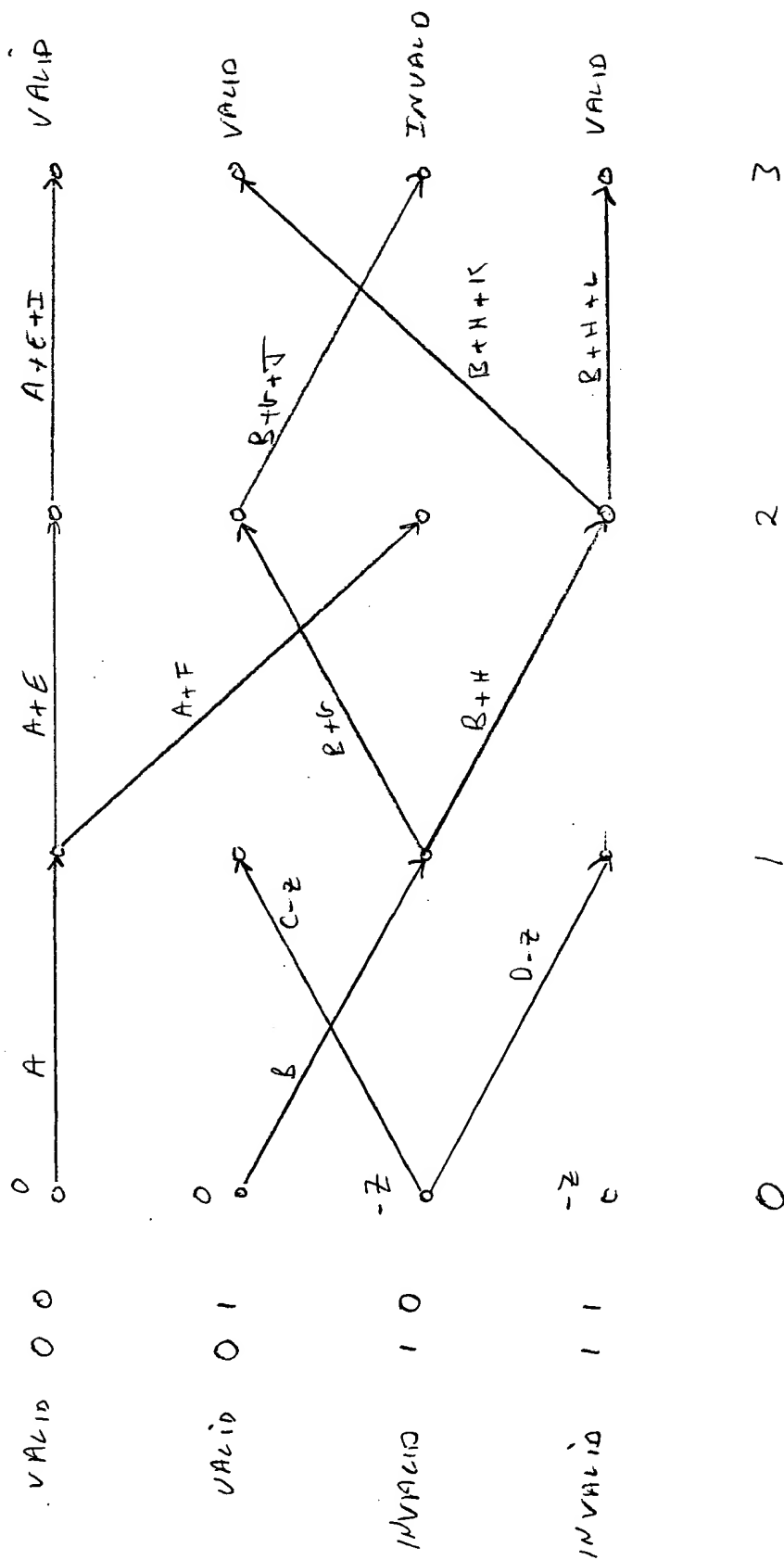
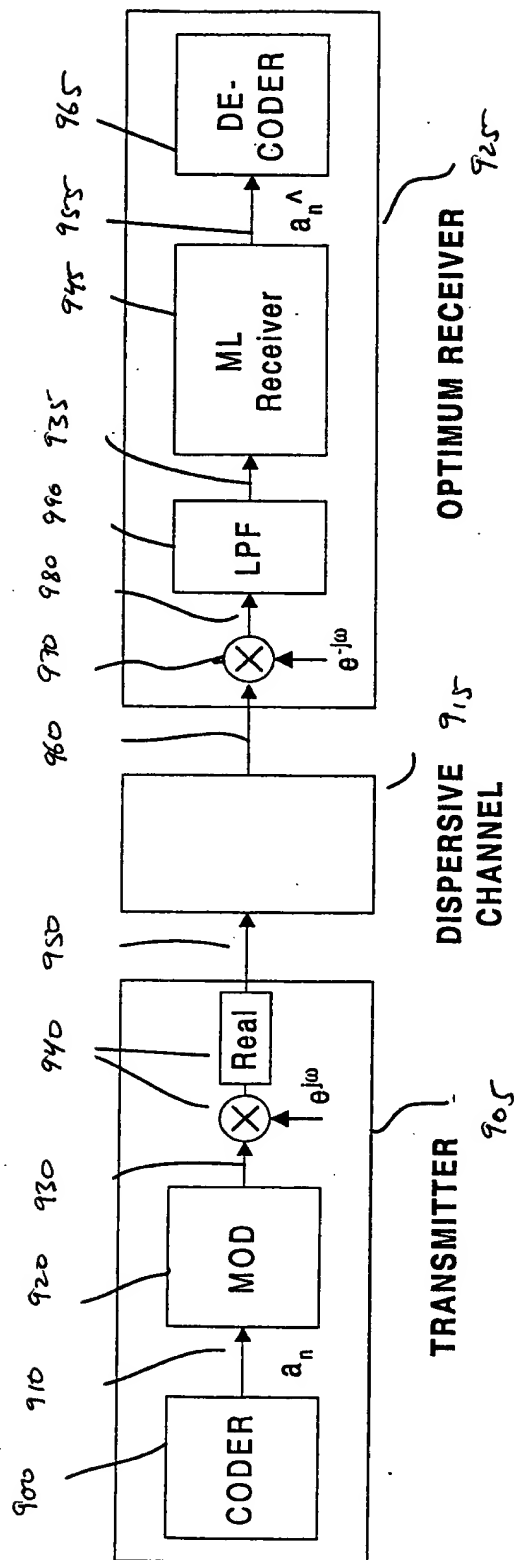


Fig. 8

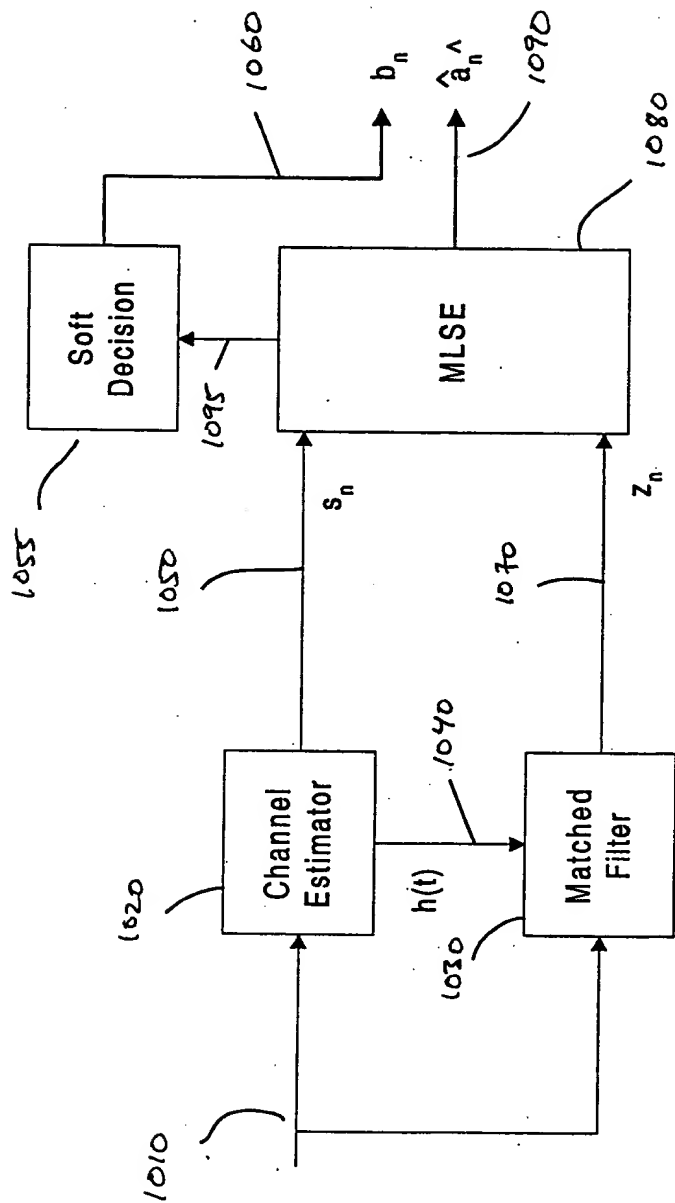




901

Fig-9

111



**ML Receiver**

Fig. 10





## F-Generator

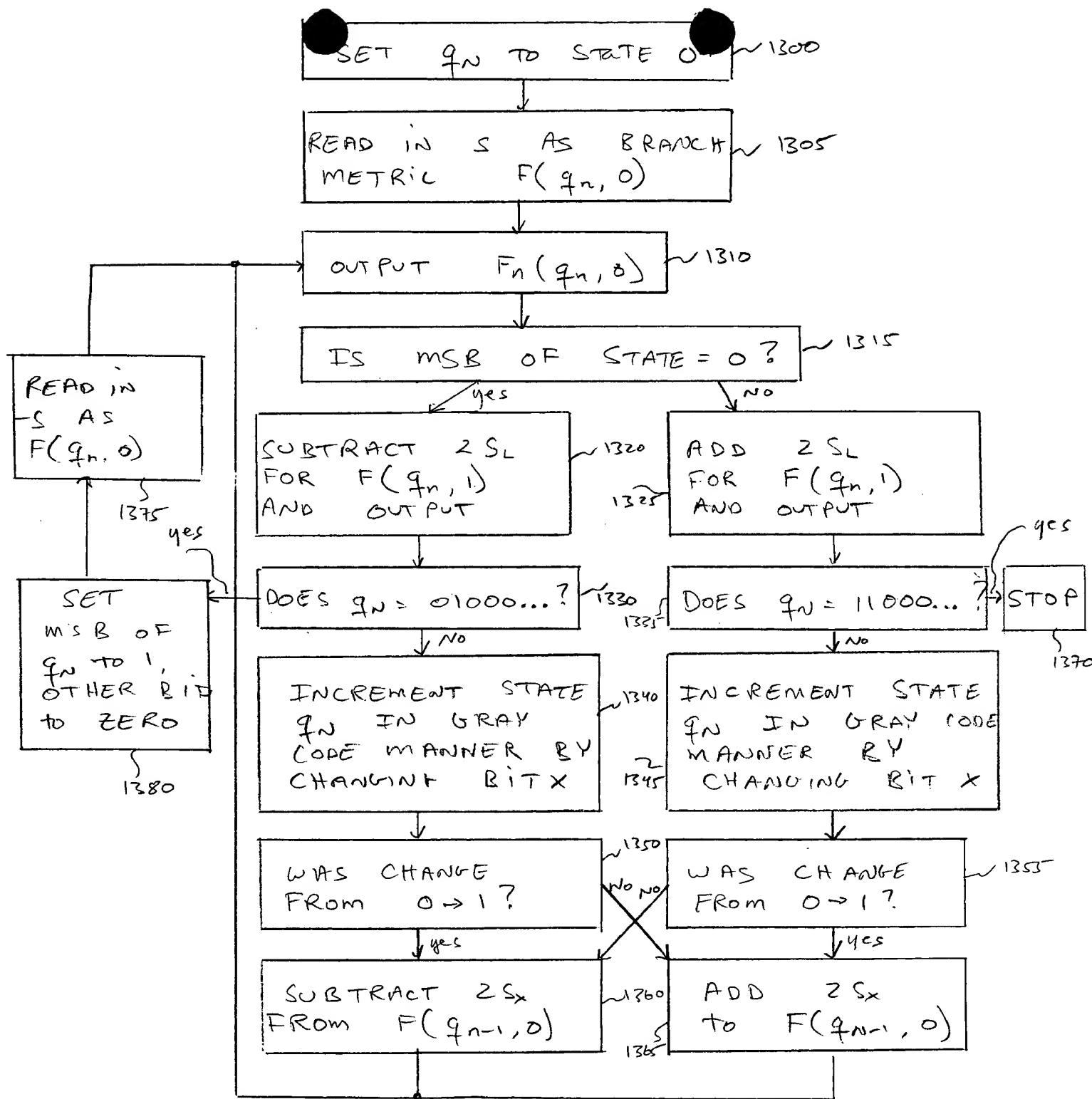
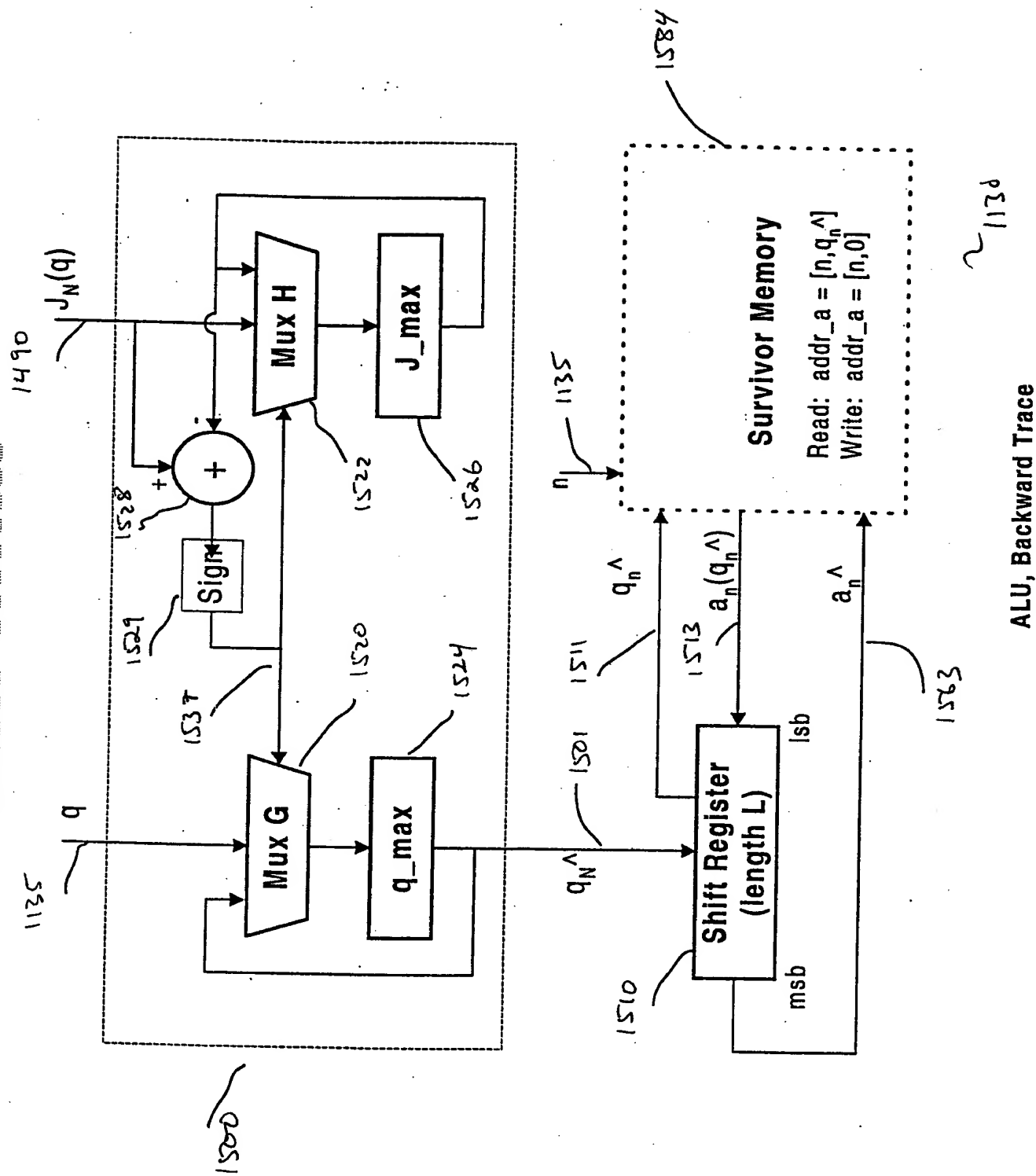


Fig. 13

Fig. 14



**Fig. 5**

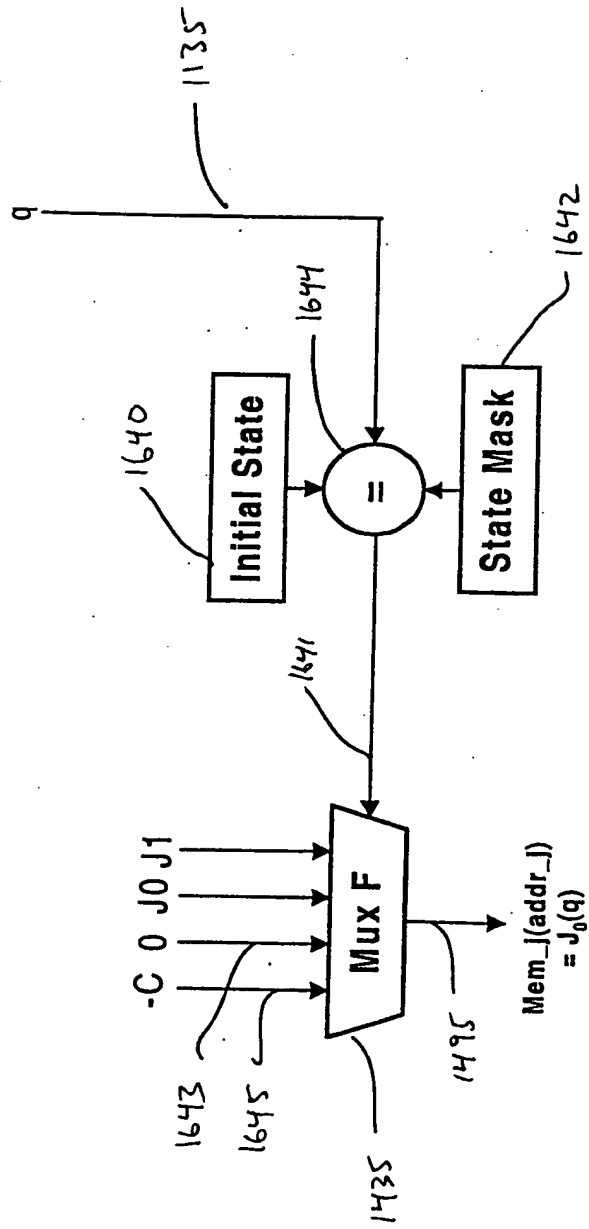
[illegible]

Fig. 16



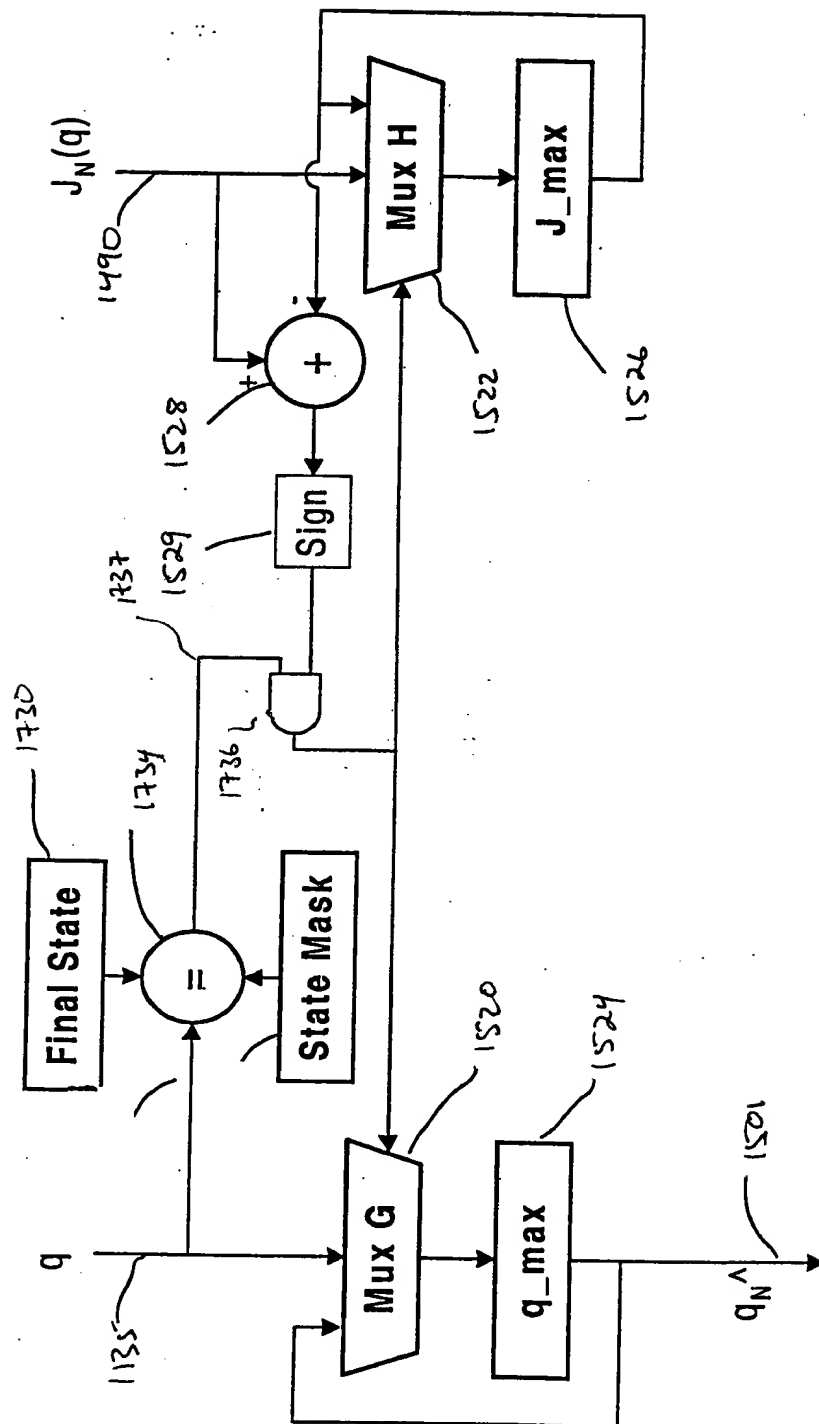


Fig. 17

1137

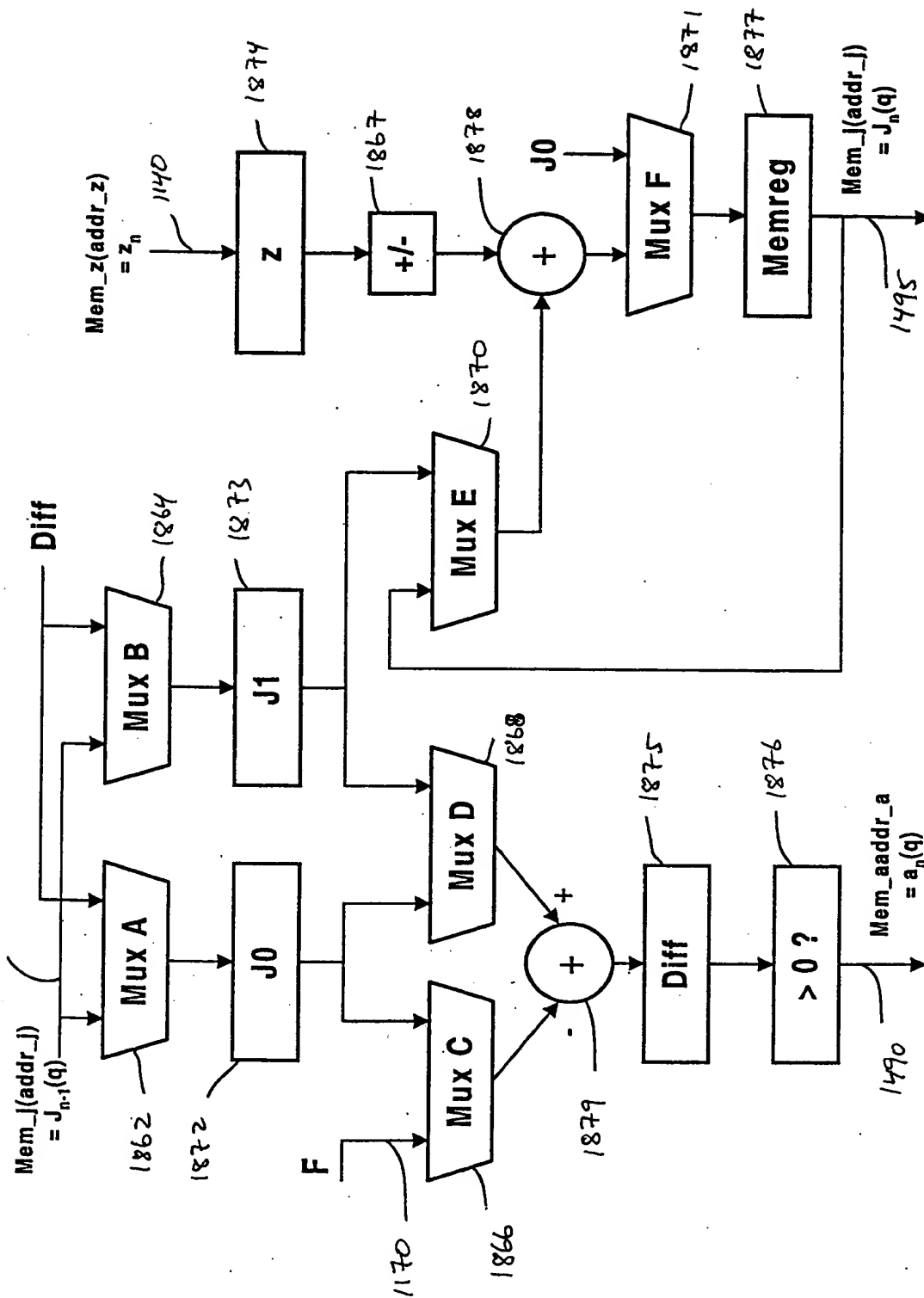


Fig. 18

ALU Alternative,  
Forward Trace

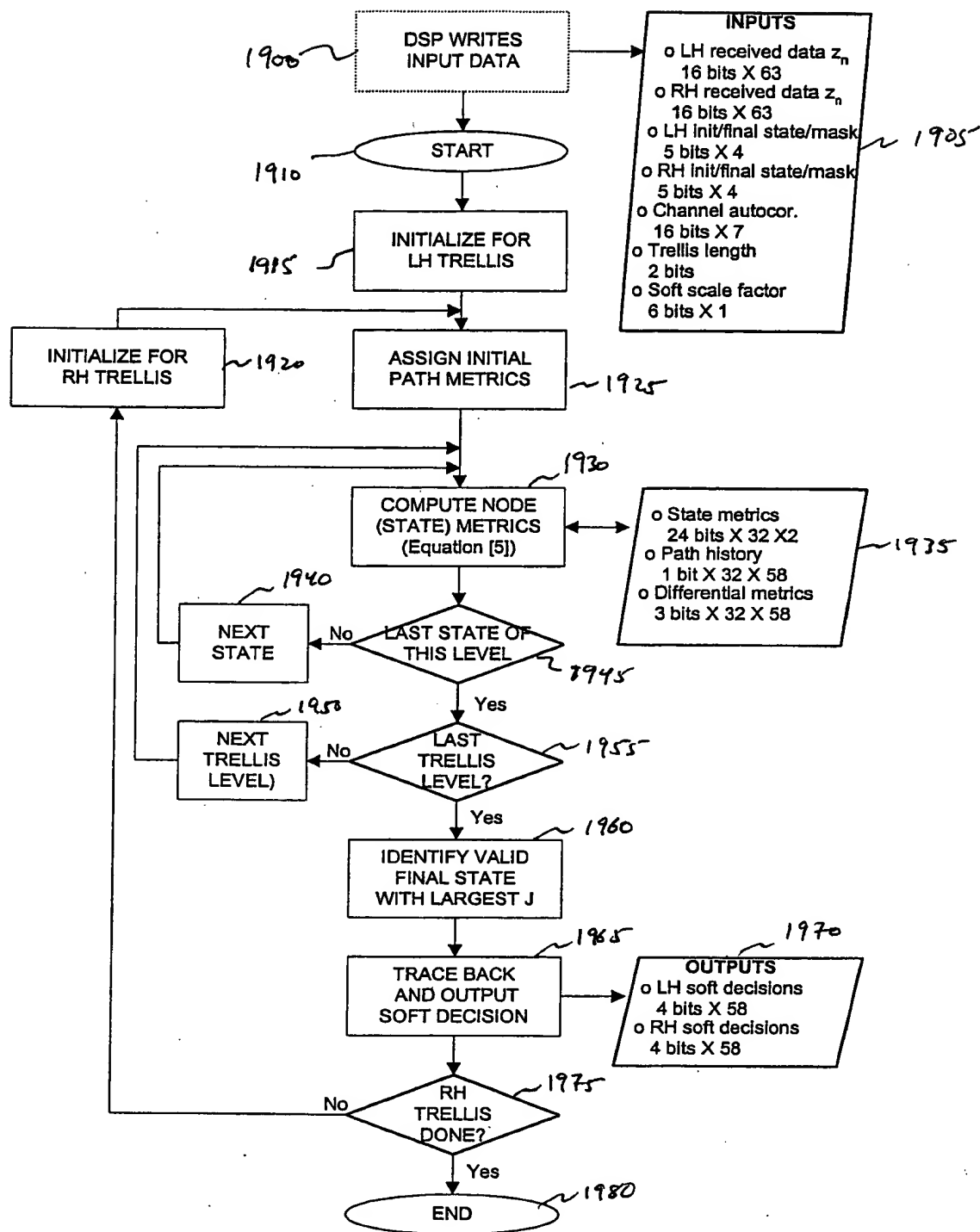


Fig 17.

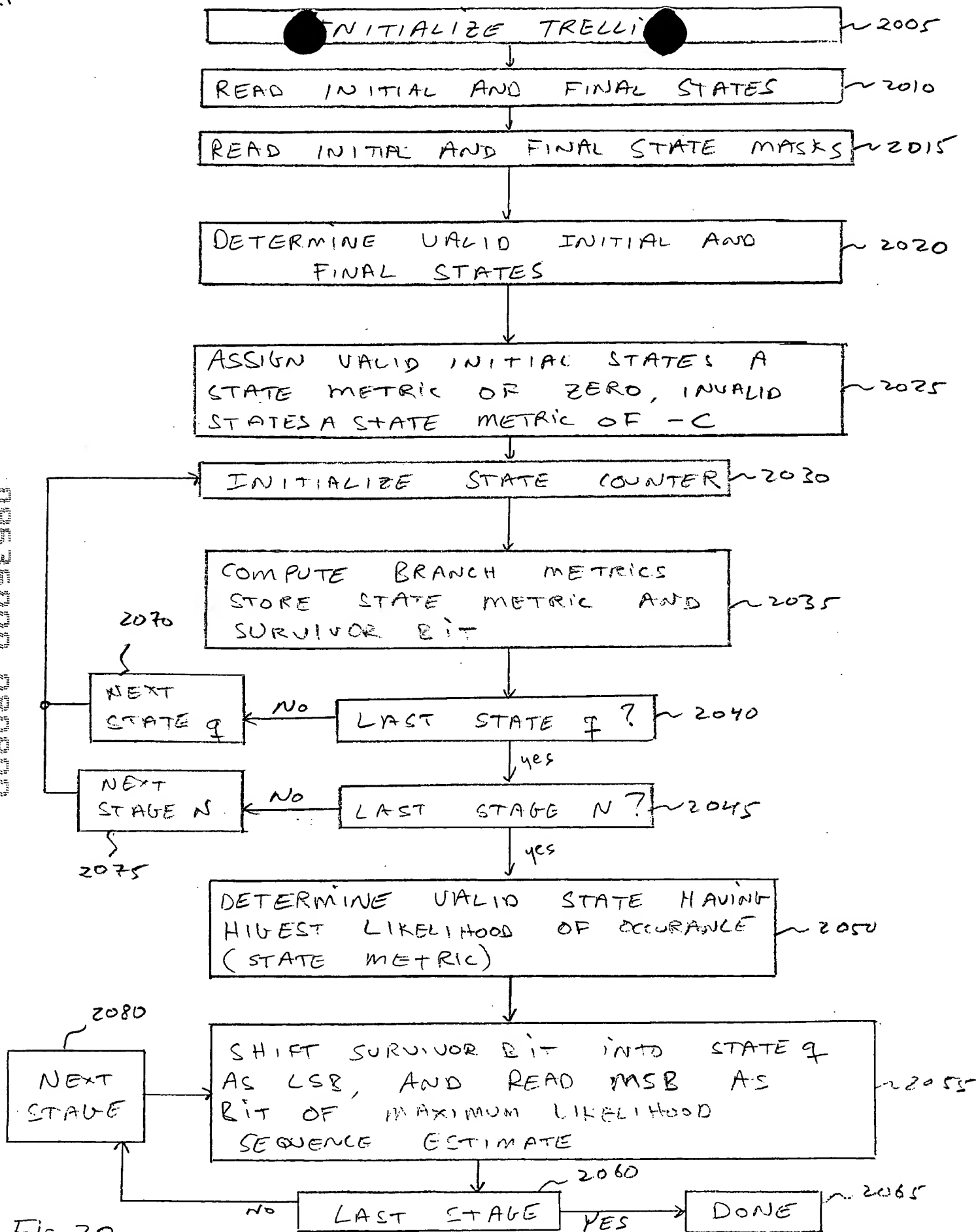


Fig. 20